

Amendments to the Claims

This listing of claims will replace all prior versions, and listing, of claims in the application.


Listing of Claims:

1. (Original) A method for arithmetic expression optimization, comprising:
- receiving a first instruction defined for a first processor having a first base, said instruction including an operator and at least one operand;
- converting said first instruction to a second instruction optimized for a second processor having a second base when said at least one operand does not carry potential overflow beyond said second base or when said operator is insensitive to overflow, said second base smaller than said first base; and
- converting to a wider base a third instruction that is the source of potential overflow associated with said at least one operand when said at least one operand carries the potential for overflow beyond said second base and when said operator is sensitive to overflow, said third instruction having been previously optimized, said wider base larger than said second base and smaller or equal to said first base.
- 2.-44. (Cancelled)

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Respectfully submitted,
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